CENTERS FOR DISEASE CONTROL

MNNR

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Current Trends

Recreational Boating Fatalities - Ohio, 1983-1986

Currently, more than 60 million people engage in recreational (noncommercial) boating activities in the United States, compared with 45 million in 1975 (1). Because of the potential for death associated with the sport, the Ohio Department of Health reviewed data on recreational boating-related fatalities in Ohio for the 4-year period 1983-1986. Analysis was based on data from the Division of Watercraft's Boating Accident Reporting (BAR) system (2). This system requires the operator of a numbered vessel involved in a boating mishap (incident) to file a report if the incident results in: 1) loss of life, 2) personal injury requiring medical treatment beyond first aid, 3) complete loss of the vessel, or 4) damage to the vessel and other property exceeding \$200.00. Only incidents resulting in loss of life were analyzed because reporting appeared to be most thorough for this category.

There were 107 recreational boating incidents resulting in 124 fatalities during the years 1983-1986. Twenty-six incidents were reported in 1983; 29, in 1984; 25, in 1985; and 27, in 1986. One hundred (93%) of these involved only one boat. The remaining seven were two-boat collisions involving more than one boat operator. For collisions, data were analyzed only for the operator of the boat in which the fatality occurred.

Most fatal incidents (69%) occurred on Friday, Saturday, or Sunday, and 73% occurred between June 1 and September 30 (Figure 1). Fatal incidents occurred most often during the afternoon and early evening (56% between noon and 8:00 p.m.), while 9% occurred between midnight and 4:00 a.m. Although fatal incidents occurred in 50 of Ohio's 88 counties during the 4-year period, 44 of 107 incidents (41%) occurred within the jurisdiction of the eight counties bordering Lake Erie.

The boat operators involved ranged from 14 to 74 years of age; the mean age was 36.3 years. Operators had varied boating experience, but over 50% had >100 hours of experience on the water (Table 1). Alcohol use was noted in eight (7.5%) of the 107 reports. This information generally came from the investigating officials' reports and was based either on the testimony of witnesses or on direct physical evidence, such as the presence of alcoholic beverage containers. Confirmatory evidence, such as blood-alcohol levels, was usually not available.

The greatest number of fatalities involved motorboats (Table 2). However, fatality rates were higher for incidents involving smaller boats, such as cances and rowboats.

Boating Fatalities - Continued

FIGURE 1. Fatal boating incidents, by month - Ohio, 1983-1986

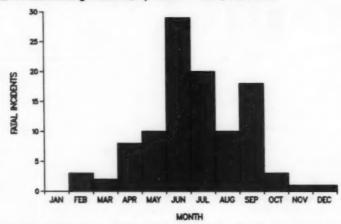


TABLE 1. Recreational boating fatalities, by operator experience - Ohio, 1983-1986

	Fate	Events
Operator Experience	No.	(%)
<20hrs.	21	(26.6)
20-100hrs.	16	(20.3)
101-500hrs.	19	(24.0)
>500hrs.	23	(29.1)
Unknown	28	-
Total	107	(100.0)

TABLE 2. Recreational boating fatalities, by type of boat - Ohio, 1983-1986

Boat Type	Registered Boats*	No. Fatal Incidents	No. Fatalities	Death Rate
Motorboats (Open, Cabin, Sail)	983,600	60	70	7.1
Sail Only	86,018	4	5	5.8
Rowboats	89,647	13	13	14.5
Canoes/Kayaks	168,148	17	18	10.7
Miscellaneous	59,281	11	16	27.0
Unknown	-	2	2	-
Total	1,386,694	107	124	8.8

*Totals for 1983-1986.

¹Per 100,000 registered boats.

Death rate excludes fatalities for which type of boat involved was unknown.

Boating Fatalities - Continued

The highest overall fatality rate was in the miscellaneous group, which includes inflatable boats and rafts, small plastic vessels, jet skis, houseboats or pontoon boats, and vessels not otherwise classified.

Nine different types of incidents led to fatalities. Capsizing accounted for 42% of them, and falls overboard accounted for 29%. Activities at the time of incident included cruising (38%), drifting (17%), and fishing (15%). One death was associated with water skiing, and none involved racing.

Reported by: JK Hopewell, Div of Watercraft, Ohio Dept of Natural Resources; T Halpin, MD, MPH, State Epidemiologist, Ohio Dept of Health. Div of Field Svcs, Epidemiology Program Office; Div of Injury Epidemiology and Control, Center for Environmental Health, CDC.

Editorial Note: Sports and recreational injuries are an important source of serious injuries and death in the United States. Almost 90% of all recreational boating deaths result from drowning, with the remaining 10% attributable to falls, burns, and other causes (3). In 1983, approximately 1,100 drownings involved recreational boats (4). In 1985, 1,116 deaths were associated with recreational boats (2). With the intention of increasing the public's awareness of boating safety and available resources, the National Safe Boating Council* sponsors National Safe Boating Week each year. This year it is the week of June 7-13.

Studies suggest that boat-operator experience and courses on boating safety may reduce the risk of mishaps (1,2). In the Ohio study, nearly one-third of the operators reported <20 hours of boating experience. Neither boating courses nor boating experience, however, have been formally evaluated for their effectiveness in preventing boating mishaps and injuries.

Unlike motor-vehicle operators, recreational boaters are generally not required to be licensed, and many have received no formal training in boat operation and safety procedures (5). However, operators of recreational boats are required to be familiar with laws and regulations, and enforcement of these laws can play an important role in preventing boating injuries.

Previous reports have identified alcohol use as a major contributing factor to deaths associated with recreational boating (1,3,5,6). An estimated one-third to two-thirds of recreational boating fatalities each year may involve alcohol (5). The low rates of apparent alcohol involvement in Ohio (7.5%) may be due to underreporting. Since 1970, Ohio has prohibited anyone under the influence of alcohol from operating a vessel. The law was expanded in 1986 to permit enforcement officials to require blood-alcohol testing of boat operators if there are reasonable grounds to believe they are under the influence of alcohol. While most states have a law prohibiting persons under the influence of alcohol from operating a vessel, less than half of these laws define legal intoxication. In addition, enforcement of these laws varies from state to state. The Ohio law has not been evaluated for its effectiveness in reducing the number of deaths and incidents associated with alcohol use.

The U.S. Coast Guard, which is responsible for overseeing the BAR system, estimates that it receives reports on nearly all fatal boating incidents. However, it also estimates that <10% of nonfatal incidents are reported (2). Information contained in these reports is provided primarily by the boat operator and is supplemented by the investigating state or local official.

^{*}The U.S. Coast Guard has a toll-free Boating Safety Hotline: (800)368-5647. Information about National Safe Boating Week or the Council can be obtained by writing: Secretary, National Safe Boating Council, Inc., c/o Commandant (G-BBS-4), U.S. Coast Guard Headquarters, Washington, D.C. 20593.

Boating Fatalities - Continued

Because of limited data, this study did not evaluate information about the victim or about the operators and vessels not involved in fatalities. Ohio is one of the few states requiring registration of all watercraft. However, certain types of boats, such as cances and rubber rafts, may be underregistered, and the recreational boating fatality rates may be disproportionately high for these.

Potential prevention efforts aimed toward reducing recreational boating mishaps and deaths include: 1) a licensing procedure for recreational boat operators similar to that for motor vehicle operators; 2) completion of an approved boating safety course prior to boat registration; 3) improved enforcement of current laws, such as those restricting alcohol use and requiring personal flotation devices; 4) stiffer penalties for operating under the influence of alcohol; and 5) courses in swimming and rescue procedures.

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Epidemiologic Notes and Reports

Update: Creutzfeldt-Jakob Disease in a Patient Receiving a Cadaveric Dura Mater Graft

CDC and the Food and Drug Administration (FDA) have investigated a case of Creutzfeldt-Jakob disease (CJD) in a 28-year-old woman who died 22 months after receiving a lyophilized, irradiated human cadaveric dura mater graft. They found that the most likely source of the disease was the graft, LYODURA® (Lot 2105), produced by B. Braun Melsungen AG, Federal Republic of Germany (1). The CDC/FDA investigators were unable to obtain the identity of the donor of the implicated graft or to trace the disposition of other tissues from this donor. A representative of the producer of LYODURA® reported that the company does not maintain records identifying donors and mixes dura from multiple donors during processing of a single lot. As a result of this investigation, FDA issued a Safety Alert on April 28, 1987, recommending disposal of all LYODURA® from packages bearing a 4-digit lot number beginning with the digit "2" (the code for material packaged in 1982) as well as all unmarked LYODURA® (2).

CDC conducted a telephone survey of 10 other known producers of dura mater used in the United States. All reported maintaining records that allow identification and tracing of each donor of a particular lot of product and of the recipient institution. In addition, it was found that these producers process dura from each donor individually so that there is no contact with or co-mingling of dura from different donors.

Creutzfeldt-Jakob Disease - Continued

fascia or synthetic materials, are available.

Reported by: Center for Devices and Radiological Health, Food and Drug Administration. Hospital Infections Program, Div of Viral Diseases, Center for Infectious Diseases, CDC.

Editorial Note: Because of the differences between the processing of LYODURA® and of other products, LYODURA® may carry a higher risk of transmitting CJD than other dura mater products used in the United States. As indicated in the FDA Safety Alert, current procedures used to sterilize human dura mater are not adequate to inactivate the CJD agent, and even the most stringent donor screening cannot exclude asymptomatic prepatent carriers of CJD (2). Thus, the use of any human dura mater product carries some risk of transmission of CJD, and procedures that minimize the risk are important. Alternatives to these products, such as autologous

The potential for human tissue products to transmit infectious agents has been documented for several procedures other than this single case in a recipient of a dura mater graft. There have been reports of presumed transmission of rabies and CJD by corneal transplantation (3,4), of human immunodeficiency virus (HIV) by organ transplantation (5), and of hepatitis B and HIV by artificial insemination (6.7).

The methods of production and distribution of human tissue products are not routinely subjected to FDA inspection and approval. Health care providers are urged to use human tissue products that have been handled according to strict guidelines such as those established by the American Association of Tissue Banks (8). In addition, hospitals should maintain records so that infections associated with human tissue products can be linked with specific lot numbers of these products.

References

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Current Trends

Potential Increased Demand for Lead Testing As a Result of Recent HUD Regulations

A recent U.S. Department of Housing and Urban Development (HUD) regulation may increase the demand for lead screening in state and local health departments. A tenant who had lived in HUD-supported housing brought suit against HUD as a result of lead poisoning acquired by a child from leaded paint within the housing unit. The

Lead Testing - Continued

court ruled in favor of the plaintiff. The case was appealed, and a higher court directed HUD to publish rules and regulations for the systematic inspection and abatement of the lead paint hazard in housing owned or supported by HUD. The rules governing public housing (1) and the regulations for eliminating lead-based paint hazards in Federal Housing Authority (FHA) single family and multifamily housing were subsequently published in the Federal Register (2).

The new policy requires HUD to notify tenants of low-income public housing projects owned by public housing authorities (PHAs) (which are supported by HUD) and constructed before 1978 that the property may contain lead-based paint. Tenants must also be informed of the necessary precautions for avoiding poisoning from lead-based paint, of the symptoms of and treatment for lead poisoning, and of the need for blood-lead screening for children <7 years of age as well as where to go for screening.

(Continued on page 331)

TABLE I. Summary - cases enectified notifiable diseases. United States

	21	st Week End	ling	Cumulat	ive, 21st Wee	sk Ending
Disease	May 30, 1987	May 24, 1986	Median 1982-1986	May 30, 1967	May 24, 1906	Median 1982-1996
Acquired Immunodeficiency Syndrome (AIDS) Aseptic meningitie Encephalitie: Primary (arthropod-borne	81 80	282 95	N 92	7,007 1,848	5,047 1,775	N 1,638
& unspec) Post-infectious	12	13	16	314 32	313 45	361 45
Gonorrhea: Civilian Military	11,154 224	16,008	16,008 406	315,914 6,875	333,189 6,417	334,973 8,886 8,960
Hapatitis: Type A Type B	400 400 57 51 13	496 548 80 92	439 433	9,510	8,950 10,238	9,854
Non A, Non B Unspecified	57 51	90 92	120	1,227 1,316 303	1,412 1,991	2,186
Legionellosis Leprosy	13 6 18	5	6	303 84 289	290 112	109 298 1,264
Meleria Messies: Total* Indigenous	141 134	5 24 196 189	18 82 N N	1,975 1,731	306 3,037 2,909	1,264
Imported Meningococcal infections: Total	7		N	244 1,450	123 1,310	N N 1 393
Civilian	55 55	47 47	48	1,449	1,308	1,393 1,379
Murrips	234	211 95	98 29 30	7,964	1,712	1,712 715
Rubells (German messles) Syphilis (Primary & Secondary): Civillan	13 432	95 35 397	30 548	169 13,206	238 10,275	339 11,361
Taxic Shock syndrome Tuberculosis	315	11 444	N 449	73 121 7,936	149 8,103	142 N 8,311
Tularemia Typhoid Fever	2	1	7 3	42 115	28	47
Typhus fever, tick-borne (RMSF) Rabies, animal	15 91	23 102	13 116	62 1,992	91 2,280	132 98 2,290

TABLE & Notifiable diseases of low frequency, United States

	Cum. 1987		Cum. 1987
Anthrex		Leptospirosis	8
Botuliam: Foodborne	19	Plague	2
infant	19	Poliomyelitis, Paralytic	
Other		Paittacoais	34
Brucellosia (Minn. 1, Mo. 1, Okla. 2)	41	Rables, human	
Cholera		Tetanus (Ala. 1)	11
Congenital rubella syndrome	3	Trichinosis	11 24 10
Congenital syphilis, ages < 1 year		Typhus fever, fise-borne (endemic, murine)	10
Diphtheria	1		

[&]quot;Five of the 141 reported cases for this week were imported from a foreign country or can be directly traceable to a knowl internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending May 30, 1987 and May 24, 1986 (21st Week:)

		Assptic Manin	Ences	holitie	-		H	lopatitic	(Viral), by	type		
Reporting Area	AIDS	Menin- gitis	Primary	Post-in- fectious	(Civ	irrhea Illan)	A		NA,NB	Unspeci- fied	Legional- loals	Lapros
Cun 198	Cum. 1987	1987	Cum. 1987	Cum. 1987	Cum. Cum. 1987 1988	1987	1887	1987	1987	1987	Cum. 1967	
UNITED STATES	7,007	89	314	32	315,914	333,189	400	400	67	61	13	84
NEW ENGLAND	296	4	13	1	10,524	7,168	7	23		1	1	6
Maine N.H.	11		1		314 181	383 195		*				2
Vt.	4		2		80	106						
Moss. R.i.	179 24	2	6 3	i	3,908 854	3,246 734	4 2	13		1	1	3
Conn.	70	2	1		5,187	2,804	1					1
MID. ATLANTIC Upetate N.Y.	2,135 298	3	38	3	49,101	55,442	4		2			5
N.Y. City N.J.	1,198	3	4	2	6,530 25,479	5,412 31,876	4		2			
N.J. Pa.	487 182	-	15	i	25,479 6,435	7,314						
E.N. CENTRAL	466	13	79	2	10,657	9,840						
Ohlo	71	7	34	2	9,794	45,245 10,378	27	45 23	1	*	2	2
Ind.	32 236	1	3		3,834	4,911		4		2	i	
Mich.	82	1	27		13,210	11,472	17	14	1	2		-
Wis.	36				3,058	4,892		-		-		1
W.N. CENTRAL	150	2	16		13,003	14,584	27	19	5		3	
Minn. lows	44	-	9		1,229	2,104 1,488			2			
Mo. N. Dak.	71				6.629	7,484	12		2		2	
N. Dak. S. Dak.	1			:	123 250	127 301	i		i		i	
Nebr.	10	2	3		796	935		2				
Kans.	21		2		1,929	2,145				*		
S. ATLANTIC Dal.	1,150	14	46	13	82,930 1,233	83,196 1,354	18	102	15	12	2	6
Md.	152	i	7	3	9,811	9.942	2		4	1	1	2
D.C. Va.	174	6	18	i	5,659	6,645	3	15	*	i		
W. Va.	7		5		617	962		1		•		
N.C. S.C.	48 30				12,591 6,822	13,875 7,475	2	20	2	1		
Ga.	173				14,349	12,445		22	4	2		1
Fla.	471	6			25,742	23,576		23		4	1	2
E.S. CENTRAL	77	4	18	3	23,426	27,708	4	9	1			
Ky. Tenn.	2	1	3		2,394 8,157	3,204 10,892 7,839	1	3				
Ala. Miss.	61	2	6	:	7,513	7,838		3	:			
	-	1		2	5,382	5,774	1	2	1			*
W.S. CENTRAL Ark.	984	18	31	2	38,544	41,432 3,794	61	48		11	4	4
La. Okia.	100	:	5		6,795	7,208						
Tex.	29 517	14	17	1	3,967 22,236	4,873 25,557	50	42	6	11	3	â
MOUNTAIN	178	7	10	1	8.510	10,009	82	27				
Mont.	2	1			197	289	1	2	1	1		
idaho Wyo.	3 2				309 168	320 239	8	4	-			
Wyo. Colo.	81	1	1		1,837	2,646 1,048	13	3	2	4		
N. Max. Ariz.	16 37	4	7	i	2,998	3,383	41	12	1 5	î	*	
Utah	12				267	434		1				
Nev.	26	1	1		1,820	1,672	1	2	-	*		
PACIFIC Wash.	1,892	26	65	7	47,079 3,333	48,425	170	120	18	17	1	62
Oreg.	49				1,778	3,840 1,913	12	20	1			
Calif. Alaska	1,099	26	56	6	40,810	40,904	124	70	13	13		49
Hawali	39	-	1	-	754 404	1,220 548	2	1 2		2		11
Guam					77	49						
P.R. V.I.	48	1	*	1	909 96 186	902 87	*	1	-	*	*	5
Pac. Trust Terr.					186	121					:	38
Amer. Samos					38	14	-					

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 30, 1987 and May 24, 1986 (21st Week)

	Maleria		Maas	les (Rui			Menin-	884	mpe		Partusa		Rubella		
Reporting Area	Cum.	Indiq	Cum.	Impo	Cum.	Total Cum.	gnececal Infections Cum.		Curn.		Cum.		-	Cum.	
	1987	1967	1967	1907	1967	1985	1907	1987	1987	1987	1907	Cum. 1986	1987	1987	Cum 1986
UNITED STATES	200	134	1,731	7	244	3,037	1,450	234	7,964	36	683	1,063	13	160	238
NEW ENGLAND	20	3	76	4	107	16	128	2	18	1	18	60		1	5
Maine	:	-	3		-		. 6	*	:	*	1	2		1	1
N.H. Vt.	1	1	67 2	2 8	12	-	13		8	-	3	24	-	-	1
Mass.			1	•	4	15	63		ī		4	16			
PL.L.	4	*		*	1	1	11		2	-		1	*		2
Conn.		1	13	21	2	*	27	2	7	1		15			1
MID. ATLANTIC	26	57	332	1	40	1,025	166		128	7	96	97	-	7	26
Upstate N.Y. N.Y. City	11	67	296	11	12	176	50 11	4	56	6	74	96		5	18
N.J.	7		- 6		3	821	34		35	1		6		1	3
Pa.	6		20		17	11	61	2	37		17	22			
E.N. CENTRAL	11	3	168		16	604	180	80	4,580	-	77	177		19	29
Ohio			1	-	4		67	3	63		26	67			
Ind.	2	-		-		-	20	15	806	*	1	19			
III. Mich.	3	3	81 23	-	, 12	306	26 53	66	2,216		25	21		18	24
Wis.			63			234	12		1,085		20	50		-	1
W.N. CENTRAL	10	13	113		13	145	68	74	1,061		38	50	-	1	7
Minn.	5	7	7		11	26	23	29	615		-	20			
Iowa Mo.	2 3					1	3	31	308					1	
Mo.	3		106	*	1	. 9	19	1	15		13	4		*	1
N. Dak. S. Dak.						14	1	13	64	-	2	3	-		
Nebr.						1	2		2			2			
Kans.				*	1	94	19		41		8	10	*		
S. ATLANTIC	61		44			305	244	37	168	10	149	433		11	1
Del. Md.	1			-	-	1	4					210		1	
Md. D.C.	11				i	25	22 5		13	1	3	86	-	2	
Va.	10					33	39	3	61	1	34	13	-	1	
W. Va.						2 2		3	23	3	32 59	5			
W. Va. N.C.	7	*	1	*	1		31	*	4	1	19		-	-	
S.C. Ga.	3 2				*	301	25 48	30	11	-	17	69	-	1	
Fla.	11		43		3	14	70	1	30		4	26			1
E.S. CENTRAL	4		2			3	66	9	1,074	1	10	18		2	1
Ky.	1						12		202	-	1	1		2	1
Tann.	1					1	23	9	865	1	2				
Ais. Miss.	2		2	*		2	25		17	*	5 2	12	*		
					-										
W.S. CENTRAL Ark.	20	35	170	1	2	415 282	100	7	628 291	1	- 42	30	3	6 2	46
La.	1			-		202	10		185		9	- 4		-	
Okia.	3				1	10	15	N	N	1	31	24	-		,
Text.	16	36	170	11	1	123	65	7	162				2	3	46
MOUNTAIN	10	14	336		14	204	62		148	1	61	98		16	
Mont.	:	10	74		1	1	:	-	4	1	3	5	-	-	
Ideho	1				2		4		3		18	28	-	1	
Wyo. Colo.	1				-		16		23		17	22			
N. Musc.		2	254			20	3	N	N		3	9			
Ariz. Utah	6	2	3		1	177	20	5	110		17	24		4	
Nev.	2				1		3		2			**			1
PACIFIC	137		490	1	47	230		4	188	15	192	100	10	106	110
Wash.	8		1		47	52		-	28	1	27	38	10	100	
Orag. Calif.	4		2		33	2	18	N	N		14			1	
Calif.	122	. 9	487	11	10	185	364	3	144	4	76	51		75	11
Alaska Haweii	3				ä	20	5	i	12	10	71	1 2	ä	32	
		-			-					-				1	
Guern P.R.	1		404	-		18			4	i	12	6	i	2	5
V.I.														-	-
Pac. Trust Terr.			1						4		1			1	
Amer. Samoa						1			3						

^{*}For messies only, imported cases includes both out-of-state and international importations. N: Not notifiable U: Unavailable ⁹International *Out-of-state

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending May 30, 1987 and May 24, 1986 (21st Week)

Reporting Area	Syphilis (Primary&	(Civilian) Secondary)	Tunio- shock Syndroma	Tuber	nifosis	Tule- remia	Typhold Fever	Typhus Fever (Tiok-borne) (Reaser)	Rabino, Animal
	Cum. 1987	Gum. 1966	1987	Cum. 1967	Cum. 1988	Cum. 1967	Cum. 1967	Cum. 1987	Cum. 1987
UNITED STATES	13,208	10,275	5	7,998	8,103	42	115	62	1,992
NEW ENGLAND	208	203		250	269		9	1	2
Maine N.H.	2	13	*	16	25 10			:	1
Vt. Mass.	103	99	*	142	124	:	7	i	- :
R.I. Conn.	8	13		23 70	19	:	1		1
MID. ATLANTIC	2,331	1,436		1,432	1,841		12	1	166
Upstate N.Y. N.Y. City	1,619	804		225	251 787	:	6	:	11
N.J. Pa.	268 358	286 277		250 262	312 291		7		. 4
E.N. CENTRAL	385	-	2	937	1,005	1	17	7	140
Ohio Ind.	48 26	409 83	2	183	170	1		7	
004.	212	50 222	-	90 360	119 454		4	-	7 25
Mich. Wis.	76 25	80 24		268 36	212		2		8 23
W.N. CENTRAL	58	104	1	228	238	11	7	,	425
Minn.		18	-	80	55		2		104
Mo.	27	6 55	:	10	21 121	3 7	3	i	132 19
N. Dak. S. Dak.	6	2		1	10	-	*		56 76
Netir.	7		1	11	4				12
Kana. S. ATLANTIC	4,464	15 2,982		1,617	1,544	3		17	26 540
Del. Md.	36	16	-	15	19	1			
Md. D.C.	243 136	192	:	142	111 63		2	5	191 23
Va.	100	177		160	142	1	1		161
W. Va. N.C.	253	201	:	168	47 203	i	1	1 2	23
S.C. Ga.	296 643	279 513		145 248	171 229	-		6 2	27
Ga. Fla.	2,741	1,456	*	052	569		4	1	81 32
E.S. CENTRAL	816	669 29	:	188	710 176	2	1	9	108
Ky. Tenn.	363	261		163	201		1	0	81 51
Ala. Miss.	203 254	237 142		211	240 83	i		1 2	38
W.S. CENTRAL	1,712	2,173		910	979	13	7	23	294 70
Ark.	300	101 355		96 104 88	116	5	1	1	70
La. Okia. Tex.	72 1,257	1,653	*	88 622	95 586	7	2 4	22	10
MOUNTAIN	208	238		185	180		3	2	184
Mont	7	2 4	-	8	7 8	1		2	86
idaho Wyo. Colo. N. Mex.	1	*	-				-	:	38
Colo. N. Max.	44 30	73 28		37	15	1	3	:	i
Ariz. Utah	143	96	-	108	82 16	3	:		36
Nev.	51	31		10	15				3
PACIFIC	2,944	2,083	2	1,729	1,837	4	60	1	181
Wash. Oreg.	104	51 43	2	92 49	86 53	2 2	2		
Calif. Alseka Hawaii	2,801	1,951		1,480	1,296		46	1	180
Hawaii	6	18		81	79		2	-	
Guem P.R.	2	333		4	30		*		-
V.I.	409			113	119				29
Psc. Trust Terr. Amer. Samos	83	130		74	13				

U: Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending May 30, 1987 (21st Week)

		All Can	1000, B	y Age (Years)		PAIR			All Cau	1000, D	y Age	Years)		PRITE	
Reporting Area	All Ages	>66	48-84	25-44	1-24	<1	Total	ReportingArea	All Ages	>65	45-94	25-44	1-24	<1	Tota	
NEW ENGLAND	874	475	130	41	15	13	45	S. ATLANTIC	1,073	621	272	104	28	48	3	
loston, Mass.	192	126	38	14	6		19	Atlanta, Ga.	148	68	35	24	3	17		
ridgeport, Conn. Cembridge, Mass.	38	28 23	8	2		1	3	Baltimore, (Ad.	200	124	48	17	4	7	1	
amonoge, mass.	30	23	6	2	1		3	Charlotte, N.C.5	92	58	20	9	2	3		
all River, Mass. lartford, Conn.	50	41	15	1	1	1	2	Jacksonville, Fla.	118	69	32	13	4	-		
owell, Mass.	30	21	6	3			î	Miami, Fla.		42	18	6	2	- 1		
ynn, Mass.	22	17	- 5			-	i	Norfolk, Va.	51 71	30	10 23	4	5 2	2		
less Bertford Mass		23	4		1	-	1	Richmond, Va. Savannah, Ga.	31	14	12	2	1	2		
lew Bedford, Mass. lew Haven, Conn.	30 57	36	10	2 9	1	1	2	St. Petersburg, Fla.	60	49	10	1				
rovidence, R.I.	50	34	11	2	3		3	Tampa, Fia.	85	43	15		-	2		
iomerville, Mass.	7	6	1	-				Washington, D.C.	145	GB	42	18	5	12		
pringfield, Mass.	38	29	- 6	2		1	2	Wilmington, Del.	23	16	7			14		
Vaterbury, Conn.	41	28		3	1	1	3									
Vorcester, Mass.	. 54	40	11	2	1	-	5	E.S. CENTRAL	608	428	144	49	27	20	2	
	1	-		-		-	_	Birmingham, Ala.	67	43	10	4		4		
AID. ATLANTIC	2,889	1,783	522	252	55	56	110	Chattanooge, Tenn.	52	37	10	3	2			
Albany, N.Y.	57	41	11	3	2	*	1	Knoxville, Tenn.	86	65	13	6	1	1		
Mientown, Pa.	25	17	8	-			1	Louisville, Ky.	97	- 96	22	4	4	1		
uffalo, N.Y.	112	19	33		2	1	5	Memphis, Tenn.	174	103		16		10	1	
Cemden, N.J.	37			1	1		1	Mobile, Ale.	21	7	7	5	2			
Elizabeth, N.J.	29	22	5	2			4	Montgomery, Ala.	52	36		2				
Eria, Pa.	56	38	10	7		1	- 1	Nashville, Tenn.	119	71	29		6	4		
Jersey City, N.J.	1.347	860	250	155	33	31	60	W.S. CENTRAL	1,156	895	254	115	52	40		
N.Y. Číty, N.Y. Newark, N.J.	39	16	250	10	3	1	5	Austin, Tex.	50	34	3	7	4	2		
Paterson, N.J.	46	27	14	3	1	i		Baton Rouge, La. Corpus Christi, Tex.	36	25		4	1			
Phildelphia, Pa.	393	274		30	4		15	Corpus Christi, Tex.	41	24	11	4	2			
	76	54		4	•		3	Dalles, Tex.	134	72	32	17		7		
Pitteburgh, Pa.				•				El Paso, Tex.	44	26		3	- 6	3		
Reading, Ps. Rochester, N.Y.	121	31	15		2	3	3	Fort Worth, Tex	84	46	22	11	1	4		
Schenectady, N.Y.	30	24		1	1		2	Houston, Tex.5	308	176	74	34	13	11		
	26	20		3		-	- 1	Little Rock, Ark.	58	32	14		1	2		
Scranton, Pa. Syracuse, N.Y.	117	82		4	2		- 4	New Orleans, La.	110	65		6	11	2 4		
Trenton, N.J.	31	20		3	-		1	San Antonio, Tex.	140	86		10	4	4		
Utice, N.Y.	21	15		3	1		1	Shreveport, La.	69	50		5	1	2		
Yonkers, N.Y.	29	26		1			2	Tules, Okla.	82	57	15	5	2	3		
	-	1,401	_	158	64	00	65	MOUNTAIN	666	405	134	58	31	200	1	
E.N. CENTRAL	2,102				2	3	60	Albuquerque, N. Ma	N. 80	55			3	2		
Akron, Ohio	63	42 19		5	2	3	1	Colo. Springs, Colo.	31	22			2			
Canton, Ohio	26 504	362		45	10	22	16		121	65			6	22		
Chicago, III.§ Cincinnati, Ohio	138	87		10	3		13	Les Veges, Nev.	107	57			7	1		
Cleveland, Ohio	116	67		14	5	4	4		33	24	4	3				
Columbus, Ohio	124	86		6	5	5	4	Phoenix, Ariz.	131	68		17	7	7		
Dayton, Ohio	119	79		n	3	2	-	Pueblo, Colo.	25	20) 8					
Detroit, Mich.	239	148			9	10	2		43	26	8	3	4	2		
Evansville, Ind.	47	36			1	10	- 1	Tucson, Ariz.	96	62	18	9	2	4		
Fort Wayne, Ind.	47	36		1	2	1	2	PACIFIC	1.899	1.092	332	161	65	42		
Gary, Ind.	11	- 1		2	2		-	Berkeley, Calif.	11	1,000	334	1	00	1		
Grand Rapida, Mich.		21		-	-	2	2	Freeno, Calif.	61	41	10		4	,		
Indianapolis, Ind.	155	102		10	- 6	- 6	3		26	38			ī	-		
Madison, Wis.S	28	20			3			Cieriosie, Cent.	62	40				2		
Milwaukee, Wis.	126	97			2	1	1						1			
Peoria, III.	32	21			1		1		92 537	336		50		7		
Rockford, III.	41	27			2	3	2		78	4				á		
South Bend, Ind.	57	4			i	2	2		33	2						
Toledo, Ohio	108	71				4	i		77					2		
Youngstown, Ohio	32	21			1	-	-		144	54	30			5		
	-				-			Sacramento, Calif.	92	60				4		
W.N. CENTRAL	618	44			12	18				8				1		
Des Moines, Iowa	53	4			1	3	4	San Francisco, Calif	146	8	5 34		. 6	6		
Duluth, Minn.	25	11				2		San Jose, Calif. Seattle, Wash.	116	71				3		
Kaneas City, Kans.	34	2			2		1	Continue Minch					3			
Kaness City, Mo.	109	7			4	3		Spokane, Wash.	51 36	3	2 1			3		
Lincoln, Nebr.	36	30	0 1		1		1	Tacoma, Wash.								
Minneapolis, Minn.	110	7			1	3	14	TOTAL	11,325	7,34	8 2,301	976	349	343		
Omaha, Nebr.	56	4				3	1									
St. Louis, Mo.	100	71			1	3	17	1								
St. Paul, Minn.	53	3				1	1									
Wichits, Kens.	42	2	8 12		2											

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United states, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not
**Phasumonia and influenza.

**Phasumonia and influenza.

**Because of changes in reporting methods in these 3 Panneylvania cities, these numbers are partial counts for the current week.

**Complete counts will be svalidable in 4 to 6 weeks.

**South on the current week.

**Total includes unknown ages.

Lead Testing - Continued

If a child's blood lead is elevated (>25μg/dl), the tenant is urged to notify the PHA. In both housing units and child-care facilities owned and operated by the PHA, all chewable surfaces and areas where paint is flaking must be tested for leaded paint. When lead-based paint is found, it is to be removed, and parents are to be directed to the local public health agency for laboratory and testing services and for medical follow-up, as appropriate.

Reported by: Div of Environmental Hazards and Health Effects, Center for Environmental Health, CDC.

Editorial Note: Testing for blood lead requires that blood be sent to a laboratory qualified to analyze both blood lead and erythrocyte protoporphyrin. Although many state and local health departments have ongoing lead screening programs, others, especially those in the western part of the country, are not screening children routinely. Children found to have lead toxicity should be referred for medical follow-up. In addition, the source of lead should be identified through an environmental investigation, and the hazard, abated. Otherwise, the child should be moved into a lead-free environment. This HUD regulation is likely to increase the demand for blood-lead and erythrocyte protoporphyrin testing and medical and environmental follow-up.

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public and Indian housing. Federal Register 1986;51(Aug 1):27774-92.

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Topics in Minority Health

Tuberculosis Among Asians/Pacific Islanders — United States, 1985

In 1985, 22,201 tuberculosis cases were reported to CDC, for a rate of 9.3 cases per 100,000 U.S. population (1). Two thousand five hundred and thirty (11.4%) of the 22,170 patients for whom race was known were Asians/Pacific Islanders (2). The rate for this group was 49.6/100,000, which is 8.7 times higher than the 1985 rate of 5.7/100,000 for the white population in the United States (3).

Two thousand five hundred and twenty-five of these Asian/Pacific Islander patients resided in 330 (10.5%) of the nation's 3,138 counties (Figure 1). Of these, 1,151 (45.6%) were in California; 174 (6.9%) were in Hawaii; 164 (6.5%) were in New York; 143 (5.7%) were in Texas; 135 (5.3%) were in Illinois; and 763 (30.2%) were in 43 other states and the District of Columbia.

The country of origin was reported for 2,357 of these patients. Of these, 2,207 (93.6%) were foreign-born: this group included 643 (27.3%) from Kampuchea, Laos, and Vietnam; 595 (25.2%) from the Republic of the Philippines; 346 (14.7%) from the Republic of Korea; 226 (9.6%) from the People's Republic of China; and 397 (16.8%) from other countries. Refugees from Kampuchea, Laos, and Vietnam who arrived in the United States during the period 1975-1985 and had disease diagnosed in 1985 had an estimated incidence rate of 75.2/100,000 (572 cases among 760,900 refugees). Those who arrived in 1984 and had disease diagnosed in 1985 had an incidence rate of 310/100,000 (161 cases among approximately 52,000 refugees).

Tuberculosis - Continued

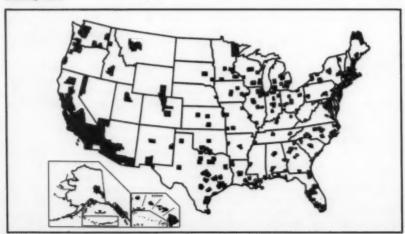
Tuberculosis developed within the first year of U.S. residency for 40.3% of all foreign-born Asians/Pacific Islanders with known date of arrival. Disease developed among an additional 8.7% within the second year of residency (Figure 2). There was little variation in this observation among the major groups of immigrants.

Because preventive therapy is indicated for all infected persons <35 years of age, analysis by age was performed. Age was known for 2,529 of the Asian/Pacific Islander patients. Of these 2,529, 1,126 (44.5%) were <35 years of age when their disease was reported. Information on the date of arrival in the United States was available on 1,879 (85.1%) of the 2,207 foreign-born patients. Of these, 826 (44.0%) were <35 years of age at the time of diagnosis in 1985. An additional 182 (9.7%) were <35 years of age when they arrived in the United States.

Reported by: Div of Tuberculosis Control, Center for Prevention Svcs, CDC.

Editorial Note: From 1980 to 1985, the Asian population in the United States grew from 3.5 million to an estimated 5.1 million (2). A large proportion of today's U.S. Asian/Pacific Islander population are immigrants or refugees from areas with a high prevalence of tuberculous infection. Refugees from Kampuchea, Laos, and Vietnam are routinely screened for tuberculosis in overseas camps, and patients with active tuberculosis are required to complete a 6-month course of directly observed chemotherapy before entering the United States (4). Therapy consists of treatment with three antituberculosis drugs (isoniazid [INH], rifampin, and ethambutol) for the full 6 months and supplemental administration of pyrazinamide during the first 2 months. The benefits of using such a fully supervised multidrug regimen are 1) a rapid reduction in infection; 2) a high rate of completion of therapy and of cure; 3) a short duration of treatment; 4) a high success rate even in the presence of initial drug resistance, which is reportedly high among this population (5); and 5) a low risk of acquired drug resistance (6).

FIGURE 1. Counties reporting tuberculosis among Asians/Pacific Islanders — United States, 1985



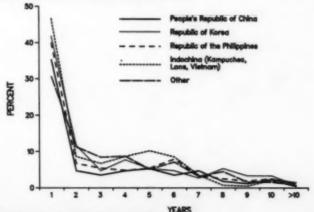
Tuberculosis - Continued

In 1985, tuberculosis among Asians/Pacific Islanders occurred almost entirely among foreign-born persons. Almost half of all tuberculosis cases among Asians/Pacific Islanders were reported from California, and an additional one-quarter were from four other states. Nevertheless, cases have been reported from all but two states. In 1980, a large influx of refugees into the United States from Southeast Asia caused national tuberculosis morbidity to increase (7). When the number of refugees entering the United States decreased, the national trend resumed its previous decline. While the proportion of total tuberculosis cases represented by this group decreased from 5.3% for the period 1979-1980 to 2.9% in 1985, the risk of tuberculosis among refugees recently arriving from Kampuchea, Laos, and Vietnam (310/100,000) is higher than it was in 1980 (231/100,000) (7).

Nearly half of all Asians/Pacific Islanders with tuberculosis were <35 years of age. By comparison, 14% of non-Hispanic white patients with tuberculosis were <35 (3). Furthermore, more than half of the foreign-born patients arrived in the United States when they were <35 years of age—the age group within which preventive therapy is routinely recommended for persons with tuberculous infection (8). Irrespective of country of origin, close to 50% of foreign-born Asians/Pacific Islanders with tuberculosis became ill within the first 2 years after their arrival.

These findings suggest that half of all tuberculosis cases among Asians/Pacific Islanders would be potentially preventable if refugees and immigrants were given tuberculin skin tests and offered preventive therapy according to current guidelines (8) shortly after arrival in the United States. Because noncompliance may lead to failures in preventive therapy among refugees (9), particular attention should be given to health education and other means of encouraging compliance, such as directly observed therapy (10). Because of the risk of overdosage with self-administered therapy (11), directly observed therapy should be used for refugees and immigrants with a history of depression or suicidal tendencies. Failures in preventive

FIGURE 2. Percentage* distribution of tuberculosis cases among foreign-born Asians, by length of stay in United States, 1985



^{*}Average percentage of cases reported per year.

Tuberculosis - Continued

therapy among Southeast Asian refugees may occur because of the high prevalence of resistance to INH in this population (6,9). For this reason, the development of alternative regimens of preventive therapy is crucial to improving disease prevention efforts among refugees and other persons from countries where infection with INH-resistant organisms is common (12).

June 5, 1987

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FIGURE I. Reported measles cases — United States, weeks 17-20, 1987



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